

Gloucester: Situated along Gloucester's historic western harbor, the Blynman Canal provides critical navigational access to the Amisquam River. The stone bulkhead along both sides of the Canal provides protection to the drawbridge that spans over the Canal along Western Avenue provides public access to western reaches of Gloucester, particularly important to first responders in the event of an emergency. The structure also provides shoreline stabilization to Stacy Boulevard and associated underground utilities along with providing safe passage for boaters transiting between the Annisquam River and Gloucester Harbor. The bulkhead was constructed as a mortared cut stone seawall with a granite cap and steel pipe railings providing protection to the drawbridge and a navigational way through the canal. Originally built in the 1600s, the structure has been re-constructed over 100 years ago and has undergone many repairs since.

Adjacent to the canal is a granite block seawall which provides public access along the harbor front. The granite block seawall from Station 0+00 to 1+12 is comprised of a gravity wall structure with a reinforced concrete cap. The wall has an exposed height of 16 to 17 feet with the base of the wall observed to be at around elevation -2.5 mean low water datum. There is no evidence either by visual observation or review of available documents that the wall is constructed on a footing. There is a riprap slope from the base of the bulkhead sloping down toward the Canal. The condition of the seawall was observed to be in poor condition. The inspection found numerous locations along the canal wall where the wall is undermined with voids ranging from 4 to 12 inches in height to greater than 6 feet in depth. In addition, large gaps/voids were observed between the granite block courses especially between the first and second row of granite blocks with voids greater than 6 feet in depth. Public access to the walkway and overlook at the top of the wall has been restricted due to concern for safety.

Award: \$ 504,869.00 grant for reconstruction

Hull: The existing concrete seawall and grouted stone revetment along Crescent Beach has been damaged and has had a series of repairs since they were originally constructed. The existing seawall shows areas of cracking, spalling and breakage. Scour on the backside of seawall from overtopping waves nearly exposes the footing at some locations along the seawall, particularly along the west end. During periods of coastal flooding, splash-over and wave overtopping, amplified by the smooth face of the revetment, transports sediment, debris, and contaminants to Atlantic Avenue and Straits Pond. The seawall runs along the north side of Atlantic Avenue at Crescent Beach. Atlantic Avenue is one of three evacuation routes for the Town of Hull. Closures of Atlantic Avenue during storms result in delays for emergency respondents and for local traffic. Clearing Atlantic Avenue is a frequent cost to the Town due to sediment, debris, and water which overwash the road during even minor storm events. Further, the improved management including minimization of the overwash resulting from this project will help improve the ecological health of the nearby Straits Pond, which falls within an Area of Critical Environmental Concern.

Award: \$1,500,000 grant and \$1,500,000 low interest loan for final design, permitting, and reconstruction

Scituate: The project site consists of a ± 585 linear foot (LF) section of the existing Oceanside Drive seawall, which in its entirety, is comprised of a concrete seawall and stone revetment that extends approximately 1.2 miles from Lighthouse Point to First Avenue. The existing structure is located within the vicinity of the cross streets of 11th Avenue and Kenneth Road, and it provides protection to public roads and utilities and private properties against flooding and storm damage. During major storm events, this area of Oceanside Drive is heavily flooded and inundated with overwash consisting of large cobbles and sand, which in turn results in compromised public access and safety and the temporary closure of the roadway and cross streets. In recent years, there have been occurrences where both first responders have been unable to respond to house fires and other emergencies in the area because of overwash which floods the area. The wall is a compilation of structures built one on top of the other over the last century. The inner core of the structure is deteriorating rapidly. The primary objective of the plan is to fully remove and reconstruct the structure, raising the height to an elevation of ± 23.5 feet above Mean Low Water (MLW).

Award: \$1,500,000 grant and \$1,500,000 low interest loan for final design, permitting, and reconstruction

Canton: This project represents the second levee application received by the program. The Project consists of the Neponset River Flood Reduction System (Levee) that protects public and private land, utilities and infrastructure in downtown Canton from floods on the East Branch of the Neponset River. Repair of the Flood Reduction System (Levee) is critical to protecting Priority Revitalization Area located in Canton Center Economic Opportunity District (as well as other properties) and the people who will inhabit it upon imminent redevelopment from flooding, thereby reducing risk of loss of life and property damage, protecting public safety, and fostering revitalization through investment in this vital district. The adjacent former Plymouth Rubber Company property is now largely vacant, consisting of ruins of demolished buildings, several former manufacturing buildings, and historic buildings of the old Paul Revere Copper Mill spanning an area of about 36 acres. In the end, the revitalization of the area will provide economic development, housing and commercial opportunities in Canton Center, preserve historic buildings, and provide public access/open space that will benefit the Town and further enhance the adjacent downtown.

Award: \$115,000 grant and \$885,000 low interest loan for final design, permitting, and reconstruction